

**Dr. Duke's Phytochemical and Ethnobotanical Database**

**Chemicals Found in *Pimenta racemosa***

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	(E)-ANETHOLE	Leaf	--	32	1.0000000000000002	
0	(E)-OCIMENE	Leaf	--	65	-0.5328616124338607	
0	(E,E)-ALPHA-FARNESENE	Leaf	--	36		
0	(Z)-OCIMENE	Leaf	--	16	1.4142135623730954	
67	1,8-CINEOLE	Leaf	200	680	-0.4427590410772167	
0	1-OCTEN-3-OL	Leaf	100	440	3.154920477470215	
0	1-OCTEN-3-YL-ACETATE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	2,3-DEHYDRO-1,8-CINEOLE	Leaf	--	16		
2	3-OCTANOL	Leaf	30	170	1.999518069743643	
0	3-OCTANONE	Leaf	30	340	1	
0	6-METHYL-HEPT-5-EN-2-ONE	Leaf	--	48	1.0000000000000002	
0	ALPHA-AMORPHENE	Leaf	10	35	-0.19089331525390477	
0	ALPHA-CADINENE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
3	ALPHA-CADINOL	Leaf	--	36	1.7831324721513606	
0	ALPHA-COPAENE	Leaf	--	70	0.060157357813246624	
0	ALPHA-CUBEBENE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	ALPHA-CUBEBINE	Leaf	--	--		
0	ALPHA-CYCLOCITRAL	Leaf	--	32		
0	ALPHA-GURJUNENE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	ALPHA-HUMULENE	Leaf	--	36	-0.40692506372496984	
0	ALPHA-MUUROLENE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ALPHA-P-DIMETHYL-STYRENE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
11	ALPHA-PHELLANDRENE	Leaf	280	950	0.35939755207141527	
28	ALPHA-PINENE	Leaf	30	950	-0.16286620322884066	
23	ALPHA-TERPINEOL	Leaf	80	415	0.1382399064245457	
0	ALPHA-THUJENE	Plant	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	ALPHA-YLANGENE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	BETA-CARYOPHYLLENE	Leaf	--	110	-0.280971407085572	
0	BETA-CEDRENE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	BETA-COPAENE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	BETA-MYRCENE	Leaf	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
3	BETA-PHELLANDRENE	Leaf	230	780	1.398677092000093	
13	BETA-PINENE	Leaf	1	35	-0.37750495647165555	
0	CALACORENE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CALAMENENE	Leaf	--	36	0.12537842028357807	
41	CAMPHOR	Leaf	--	240	-0.24352185525168293	
31	CARYOPHYLLENE	Leaf	90	305	-0.497340410309604	
8	CARYOPHYLLENE-OXIDE	Leaf	--	18	-0.3781728702778057	
3	CHAVICOL	Leaf	1100	7345	1	
2	CHRYSANTHENONE	Leaf	--	255		
1	CIS-3-HEXENOL	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	CIS-ALPHA-FARNESENE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
53	CITRAL	Leaf	8000	31200	1	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
1	COPAENE	Leaf	20	70	1.544780732576718	
9	DELTA-CADINENE	Leaf	--	145	0.16716304864753206	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	DELTA-ELEMENE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	DOCOSANE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	EICOSANE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	EO	Leaf	7500	34000	2.415813435144573	
12	ESTRAGOLE	Leaf	18	10745	0.19223833977396435	
76	EUGENOL	Leaf	16	19100	1.749765335298858	
5	EUGENOL-METHYL-ETHER	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	FURFUROL	Leaf	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	GAMMA-CADINENE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
11	GAMMA-TERPINENE	Plant	--	16	-0.5274539805502925	
13	GERANIAL	Leaf	1	18090	2.64112243372159	
0	GERANIC-ACID	Leaf	--	160	0.9999999999999998	
35	GERANIOL	Leaf	--	560	0.02962893967624691	
5	GERANYL-ACETATE	Leaf	80	270	0.4063964750625717	
2	GERMACRENE-D	Leaf	--	55	-0.48053593113363874	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	HENEICOSANE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	HEPTADECANE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	HEXACOSANE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	HEXADECANE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
3	HEXANOL	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
16	ISOEUGENOL	Leaf	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	LEDENE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
60	LIMONENE	Leaf	140	6870	6.779460530175923	
0	LINALOL	Leaf	130	1020	0.16156519383563286	
53	LINALOOL	Leaf	130	1020	0.1004432910088594	
6	METHYL-CHAVICOL	Leaf	30	10745	1.9031033477402637	
20	METHYL-EUGENOL	Leaf	130	14650	1.7180184963159455	
0	METHYL-HEPTENONE	Leaf	10	35		
0	MONOTERPENES	Leaf	2570	8740	1	
22	MYRCENE	Leaf	735	23800	8.415615315531328	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	NERAL	Leaf	50	11080	2.645295440851897	
0	NERIC-ACID	Leaf	--	32		
10	NEROL	Leaf	--	110	0.08229379594305986	
5	NERYL-ACETATE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	NONADECANE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
2	OCIMENE	Leaf	100	340		
0	OCTADECANE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	P-CYMEN-8-OL	Leaf	--	18	-0.05670989498424539	
16	P-CYMENE	Leaf	16	750	0.222984120681939	
0	PENTACOSANE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	PENTADECANE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	SABINENE	Plant	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
23	TERPINEN-4-OL	Leaf	30	190	-0.21755950373765864	
0	TERPINEN-4-YL-ACETATE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	TERPINOLINE	Leaf	30	100		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
0	TETRACOSANE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	TETRADECANE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	TETROCOSANE	Leaf	--	--		
17	THUJONE	Leaf	--	16	-0.7362072762133899	
0	TRANS-3-HEXENOL	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	TRANS-LINALOOL-OXIDE	Leaf	--	18	0.15034619483106604	
0	TRANS-OCIMENE	Leaf	210	715	1.5508624595270908	
0	TRICOSANE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	TRIDECANE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
0	VERBENOL	Leaf	--	16	-1	